

CLAIMS

1. A bottom opening type container which is constituted with a side plate (13) and a pair of bottom plates (11), comprising: opening and closing shafts (12) of the bottom plates (11) which are mounted in the vicinity of a bottom portion of the side plate (13); engaging pins (14) which are provided in the vicinity of tip ends of the bottom plates (11); a pair of opening and closing arms (57) which are pivoted to opening and closing fulcrums (573) fixed to the side plate (13) and can retain the engaging pins (14) at lower end portions; intermediate links (56) whose one ends are coupled to upper and intermediate portions of the opening and closing arms (57); a block (55) which is connected to the other ends of the intermediate links (56); a lifting rod (52) which is screw-coupled to the block (55); a sleeve (53) which is inserted with the lifting rod (52); a rocker arm (54) which is mounted in the vicinity of a lower end of the sleeve (53) and which ascends and descends together with the sleeve (53); a lifting-up arm (51) which is coupled to the lifting rod (52) via a pin (521); a manual lever (53) which is inserted between the lifting-up arm (51) and an upper end of the sleeve (53) to be rotatable by 180° in a horizontal direction using the lifting rod (52) as a rotation shaft; and a stopper for a lever (58) which is provided at a lower portion of the manual lever (53) to prevent the manual lever from lowering, wherein the vicinities of both ends of the rocker arm (54) are engaged with upper end portions of the opening and closing arms (57), the lifting-up arm (51) has one short arm and one L-shaped arm on both sides about the pin (521) serving as a rotation center, a pushing-down pin (513) is provided near to the rotation center of the short arm and a lifting hole (511) is provided at a tip end of the L-shaped arm, and S-shaped slits (571) which are fitted to the rocker arm (54) in left and right directions at respective positions of opening and closing are provided in the opening and closing arms (57).

2. A bottom opening type container which is constituted with a side plate (13) and a pair of bottom plates (11), comprising: opening and closing shafts (12) of the bottom plates (11) which are mounted in the vicinity of bottom portion of the side plate (13); engaging pins (14) which are provided in the vicinity of tip ends of the bottom plates (11); a pair of

opening and closing arms (57) which are pivoted to opening and closing fulcrums (573) fixed to the side plate (13) and can retain the engaging pins (14) at lower end portions; intermediate links (56) whose one ends are coupled to upper and intermediate portions of the opening and closing arms (57); a block (55) which is connected to the other ends of the intermediate links (56); a lifting rod (52) which is screw-coupled to the block (55); a sleeve (53) which is inserted with the lifting rod (52); a rocker arm (54) which is mounted in the vicinity of a lower end of the sleeve (53) and which ascends and descends together with the sleeve (53); and a lifting-up arm (51) which is coupled to the lifting rod (52) via a pin (521), wherein the vicinities of both ends of the rocker arm (54) are engaged with upper end portions of the opening and closing arms (57), the lifting-up arm (51) has two arms extending in different directions by 90° about the pin (521) serving as a rotation center, lifting holes (511), (512) are provided at respective holes, a pushing-down pin (513) is mounted near to the rotation center of one arm, and S-shaped slits (571) which are fitted to the rocker arm (54) in left and right directions at respective positions of opening and closing are provided in the opening and closing arms (57).

3. A bottom opening type container according to claim 1 or 2, wherein a returning mechanism constituted by rotatably mounting the other end of a lever (6) having a tip end hook (61) to a side face of the bottom plate (11) and lifting an intermediate portion of the lever by a spring (62) is provided, the tip end hook (61) is engaged with the lifting-up arm (51) in a state where the bottom plate (11) has been opened at 90° and the lifting-up arm (51) has fallen down without being lifted upward.

ADDED A27